December 5, 2001

MODIS sensor Working Group (MsWG) Summary

Attendance: Suraiya Ahmad, Bill Barnes, Stuart Biggar, Vincent Chang, Roger Drake, Wayne Esaias, Bob Evans, Chris Moeller, Vince Salomonson, Junqiang Sun, Eric Vermote, Jim Young, Zhengming Wan, Joe Esposito

Scheduled Items

- FM1 status (Bill/Roger)

  (RD) CPA and Formatter (A) have been repaired and reinstalled in the instrument CPB and Formatter (B) repairs are in progress. They should be done and in the instrument by 12/14/2001.

- Ocean Group Issues (Bob/Wayne)

  (BE) Miami is looking at polarization and cross scan in the time epochs.

  There are six epochs: 3 in original A side, 2 in B side, and 1 in second A side.

  The epoch boundaries coincide with MCST LUT changes. Work is proceeding on normalizing out the changes between epochs and expect better than a 1/2 improvement to residuals.

  Work has progressed on a revised sun glint algorithm.

  When all changes are applied, expect better residuals and a stunning improvement.

  MCST can convolve Miami enhancements to improve the L1B product

  (WE) Care must be taken during convolution. Should start with the 3 original A side epochs and check how well the convolution works.

  (BE) Miami is also comparing SST data with buoy data and is getting a low RMS independent of scan angle (B31, 32 flatter in residuals) using regression based algorithms. Deep space maneuver will improve the residuals and possibly enable the physics based SST algorithm.

  (VS) Emory article makes statement that buoy data differs from spaced based IR data.

- Recent TEB validation (Wan)

  (ZW) Performing a comparison of original A side to current A side. B31 and B32 RMS seem better in current A side.

- Feedback from ST members on workshop materials

  (KC) MCST will forward FM1 PDF file in landscape when Jack returns from travel. MsWG members will also be sent location of the PDF files at mcstftp for downloading by those members who did not receive the first mailings of the STM PDF file package.

Around the Table

Participant: EV: MCST should place RSR data in mcstftp or give the web location where the data now exists.

Participant: CM: Performing a comparison of TEB V2 to V3 for 3/11/2001 data. How are A_0 and A_2 acquired?

(KC) BB is temperature cycled every three months in order to update the parameters. There are differences from one three month period to the next at low T, below BB temperature.

· 3/11/2001 has A_0 and A_2 for V2. Should this be changed for V3?

(KC) BB cycles used for V2 and V3update are separated by ~2 months. MCST is doing L retrieval effect from A_0 and A_2 analysis. MCST will prepare charts.

Participant: SB: Thullier has released a paper extending his solar spectral measurements out to 2.5μm. This would improve TOA solar irradiance over the current MCST standard.

(WE) Is MCST changing the standard?

(SB) Only suggesting that this be investigated as the current standard depends upon decades old data above about 0.870μm.

Participant: SA: Status:

Reprocessing: September 22 (2001226).
Forward Processing: December 3 (2001337)
All MCST requests have been processed except 2000244.

Participant: BB:May cancel next week's MsWG meeting. Will let members know by Email.